#### **PATENT**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

application No.:

10/071,934

Filing Date:

February 7, 2002

Applicant:

Markus Walther

RECEIVED

JAN 3 0 2003

Group Art Unit:

2641

Technology Center 2600

Examiner:

Unknown

Title:

Context-Aware Linear Time Tokenizer

Attorney Docket:

9432-000151

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

#### **INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

## I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

## II. COPIES

- A. X Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.
- B. \_\_\_\_ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))							
CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)							
A. X Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).							
B A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):							
<ol> <li>See the attached foreign patent office communication from a counterpart foreign application:</li> <li>English translations are provided for:</li> <li>Other:</li> </ol>							
C The following additional information is provided for the Examiner's consideration.							
CROSS REFERENCE TO RELATED APPLICATION(S)							
A The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.							
Serial No. Filing Date Art Unit							
THIS IDS IS BEING FILED UNDER							
A. X 37 C.F.R. § 1.97(b): (check <u>only</u> one box)							
1 within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.							
2 within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.							

III.

IV.

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- 3. X before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
- 4. \_\_\_ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

## B.\_\_\_\_ 37 C.F.R. § 1.97(c): (check <u>only</u> one box)

- before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
- 1. \_\_\_\_ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
- 2. \_\_\_\_ See the certification below. No fee is required.

## C. \_\_\_\_ 37 C.F.R. § 1.97(d):

- after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
- 1. \_\_\_ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

# VI. <u>CERTIFICATION UNDER 37 C.F.R. § 1.97(e):</u> (check <u>only</u> one box)

The undersigned hereby certifies that:

- A. \_\_\_each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or
- B. X no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37

C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. \_\_\_Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

#### VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

\_\_\_\_ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

## VIII. PAYMENT OF FEES (check only one box)

- A. \_\_\_\_ A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. \_\_\_\_ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

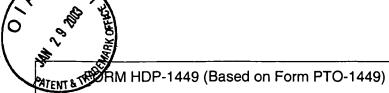
Dated:

03

By:

Gregory A. Stobb Reg. No. 28,764

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600



#### PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 1

SERIAL NO.				
10/071,934				
GROUP				
2641				
	10/071,934 GROUP			

U.S. PATENT DOCUMENTS								
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date		
1.		5,495,409	02/27/96					

FORE	FOREIGN PATENT DOCUMENTS								
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No		
1.							,		

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)						
Ref. Desig.	Examiner's Initials						
1.		Beesley, K., "Constraining Separated Morphotactic Dependencies in Finite-State Grammars", International Workshop on Finite State Methods in Natural Language Processings, (1998).					
2.		Mohri, M., "Syntactic Analysis By Local Grammars Automata: An Efficient Algorithm", International Conference on Computational Lexicography (1994).					
3.		Reps, T., "'Maximal-Munch' Tokenization in Linear Time", ACM Transactions on Programming Languages and Systems, Vol. 20, No. 2, (1998), pp. 259-273.					
4.		Mohri, M., "String-Matching With Automata", Nordic Journal of Computing, Vol. 4, No. 2, (1997), pp. 1-15.					

Examiner:	Date Considered:

Please type a plus sign (+) inside this box -> [+]

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FOR	M			

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/071,934 February 7, 2002			
Filing Date				
First Named Inventor	Markus Walther			
Group Art Unit	2641			
Examiner Name	Unknown			
Attorney Docket Number	9432-000151			

ENCLOSURES (check all that apply)							
Fee Transmittal F	örm	Assignment			After Allowance Communication to Group		
Fee Attached		☐ Drawing(s)			Appeal Communication to Board of Appeals and Interferences		
Amendment / Response		Licensing-re	lated Papers			peal Communication to Group opeal Notice, Brief, Reply Brief)	Tec
After Final		Petition		Proprietary Information			
Affidavits/declaration(s)  Petition to Convert to a Provisional Application			Status Letter		ogy C		
Extension of Time	e Request		torney, Revocat Correspondence		⊠ Ot (ple	ther Enclosure(s) ease identify below):	<b>Technology C</b> emer ∠ง55
Express Abandon	ment Request	Terminal Disclaimer  Request for Refund			Form 1449; copies of cited references; and postcard	ώυυ	
Information Disclo	osure Statement	CD, Number of CD(s)					
Certified Copy of Priority Document(s)		Remarks  The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 to Deposit Account No. 08-0750. A duplicate copy of the sheet is enclosed.		equired under 37 CFR 1.16 o			
Response to Miss Incomplete Applic							
Response to Parts under 3 1.52 or 1.53					<i>a.</i> .		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT							
Firm or Individual name  Harness, Dickey 8		Attorney Name Gregory A. Stobbs			Reg. No. 28,764		
Signature	Fre	2 Stob	ba				
Date	January 24, 2003	)					

#### CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.

Trademark Office off the de	ate indicated below.		
Typed or printed name	Gregory A. Stobbs		
Signature	Freg Stolls	Date	Janaury 24, 2003